

Serial No. 09/890,471
Docket No. BERG 99.01 CIP
Amendment D Under Rule 116

REMARKS

Claims 1, 8, 12, and 16 have been amended to better define the invention over the prior art and obviate the §112 rejection. More specifically, the requirement of "preheating the substrate" has been removed from claims 1 and 12 and the features of claims 7 and 15 have been incorporated into claims 1 and 12, respectively. Claims 6, 15, 34-36 and 38 have been cancelled.

The Examiner stated in the last Office Action that if the preheating limitation was removed that claims 1-6, 8, 10, 12-16, 18, 20, 21, 23, 25-27 and 29 would remain subject to rejection as being obvious over Ammon et al. (US Patent 3,660,726) in view of Lowe et al. (UK Patent App No. 2,227,887). Detailed Action dated 11/08/2004, page 4. However, this obviousness rejection is in error. Claim 1 and 12, as amended, require "plating said plurality of vias to form said plurality of conductive pathways between said top surface and said bottom surface."

Ammon et al. teaches making multilayered boards by utilizing two sided plated boards. The two sided boards are stacked with a dielectric between them. A conductive metal pin is driven through the stack. The conductive pin eliminates the need for plating through the holes in the multilayered structure. Thus, Ammon et al. does not teach plating to form a plurality of conductive pathways.

Lowe et al. does not provide the missing teaching of Ammon et al. Lowe et al. teaches a method of printing a one-sided circuit board for use in a keyboard. Nowhere does Lowe et al teach a method of forming conductive pathways by plating. Therefore, no combination of Ammon et al. and Lowe et al. could achieve nor render obvious independent claims 1 and 12.

HAYES SOLOWAY P.C.
130 W. CUSHING ST.
TUCSON, AZ 85701
TEL. 520.882.7623
FAX. 520.882.7643

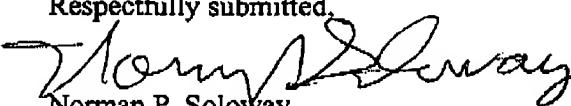
175 CANAL STREET
LANCHESTER, NH 03101
TEL. 603.668.1400
FAX. 603.668.8567

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Having dealt with all the objections raised by the Examiner, the Application is believed to be in order for allowance. Early and favorable action are respectfully requested.

In the event there are any fee deficiencies or additional fees are payable, please charge them (or credit any overpayment) to our Deposit Account Number 08-1391.

Respectfully submitted,

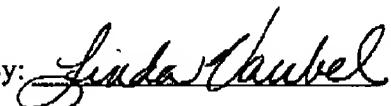


Norman P. Soloway
Attorney for Applicant
Reg. No. 24,315

CERTIFICATE OF TRANSMISSION VIA FACSIMILE

I hereby certify that this correspondence is being sent via facsimile to EXAMINER ROBERTS P. CULBERT of the United States Patent and Trademark Office at facsimile number (703) 872-9306, on December 27, 2004 from Tucson, Arizona.

By:



NPS/WPO:lv

HAYES SOLOWAY P.C.
130 W. CUSHING ST.
TUCSON, AZ 85701
TEL. 520.882.7623
FAX. 520.882.7643

175 CANAL STREET
MANCHESTER, NH 03101
TEL. 603.668.1400
FAX. 603.668.8567